

COURSE OUTLINE

Subject and Level:

Science NCEA Level 1

Course Prerequisites:

Books: Scipad student workbooks, these will be issued by the teacher and then invoiced. Other revision/extension/study guide material may become available throughout the year.

Aims:

- Relate key structural features and functions to the life processes of micro-organisms and investigate environmental factors that affect these processes.
- Investigate trends and relationships in physical phenomena (in the areas of mechanics, electricity).
- Demonstrate an understanding of physical phenomena and concepts by explaining and solving questions and problems that relate to straightforward situations.
- Investigate how physics knowledge is used in a technological or biological application.
- Identify patterns and trends in the properties of a range of groups of substances, for example, acids and bases, metals, and metal compounds.
- Explore factors that affect chemical processes.
- Distinguish between atoms, molecules, and ions (includes covalent and ionic bonding).
- Link atomic structure to the organisation of the periodic table.
- Use particle theory to explain factors that affect chemical processes.

Course Content:

Year 11 Science is a general science course essential for all students wishing to study any specialised science (Biology, Chemistry or Physics) at level 2 or higher

- Energy
- Investigations
- Chemical reactions
- Humans and microorganisms
- Genetics

Assessment:

Internal assessment:

3 x level 1 Achievement Standard, of 5,5,6 credits each involving an investigation relating to Biology, Chemistry and Physics. These will be assessed throughout the year.

External assessment:

1 x level 1 Achievement standard, of 5 credits, Physics (energy).

Departmental policy on further assessment opportunities: any missed internal assessment may be undertaken at the end of the term 3 exam week.

Where can this take you?

An understanding of Science is an essential skill for all members of society in order that they can make informed decisions on scientific and technological issues they will be faced with. An understanding of Science will ensure their survival.

Appeal procedures:

Follows the approved LPHS Assessment Appeals Procedure.

Contact for further inquiries:

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or HOD Science: Dr Thompson mbt@lphs.school.nz

Assessment chart:

AS No	Standard Title	Credits	Internal / External	Format	Indicative Date
1.1 92020 v3	Demonstrate understanding of the relationship between a microorganism and the environment	5	Internal	Written report	Term 2
1.2 92021 v4	Demonstrate understanding of chemical reactions in context	6	Internal	Written report	Late Term 1
1.2 92045 v3	Demonstrate understanding of a physical phenomenon through investigation	5	Internal	Written report	Term 4
1.4 92047 v3	Demonstrate understanding of a physical system using energy concepts	5	External	External exam	Term 4